

## Electrical's Bob Roe Also Makes Dean's List As Part-Time Tennessee Student

A little additional sleuth work on the part of the Bulletin has brought up another Y-12 student, who consistently makes the Dean's list at U.T. He is Bobby Gene Roe, Electrical, who works the straight evening shift which enables him to attend regular morning classes on the Hill.

Bob, a native of Three Point, Kentucky, will be a junior at the University of Tennessee come the Fall quarter. He is working toward a degree in electrical engineering. With a background in the U. S. Navy (he served from 1950 until 1952 . . . and from 1958 until 1962 in the Reserves where he attained the rating of a Chief Electronics Technician) Roe's job as instrument mechanic in Electrical certainly goes hand-in-glove with his studies.

Roe is married to the former Thelma Guy, and they have a daughter Jeanne. They live at 101 Wayside Road, Oak Ridge.

He came to Y-12 January 12, 1954 after working with the Maxon Construction Company, and Bailey Motors, Clinton. He attended Wilbur Wright High School and graduated from the Parker Co-Operative High School, Dayton, Ohio.

During his first two years at U.T. Bob has maintained a 3.4 average . . . not bad for a full-time employee, parent and home-maker, is it?

## Great Scott! Wrong Teacher Was Reported

Great Scott, we got the wrong one! In last week's Bulletin it was stated that Mildred Scott, PSS Division, would teach Business Law this Fall in the Adult Education Program at the Oak Ridge High School.

While Mildred is qualified to teach (she has been a teacher in the TAT Program), it was her husband, James B. Scott Jr. we should have referred to! After all, Buddy is the lawyer in the family!

The CPS courses offered this Fall are Accounting, Business Law and Office Administration. More information may be obtained from Mabel Tyer, extension 3-7121.

Apologies to the Scotts!

## Thermonuclear Subject Is 'Electron-Cyclotron Heat'

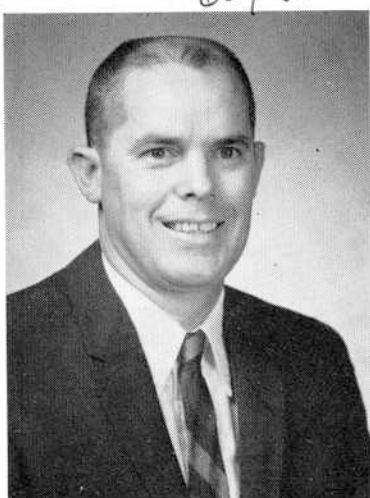
Dr. A. W. Trivelpiece, department of physics and astronomy, University of Maryland, will lead this week's Thermonuclear Division seminar. His subject will be "Electron-Cyclotron Heating."

The seminar is set tomorrow, Thursday, September 7, at 9 a.m. in the TD Conference Room, Building 9201-2.

## Pittsburgh's Tabakin Guest Seminar Speaker

Frank Tabakin, University of Pittsburgh, will be guest speaker at this week's Physics Division seminar. His subject is "Semi-Infinite Matter and the Nuclear Surface."

The seminar is set for Friday, September 8, at 3:15 p.m., in the East Auditorium of ORNL's 4500 building.



Bobby Gene Roe

## ISA Meet Tonight At Holiday Inn

The Oak Ridge Section of the Instrument Society of America is holding its monthly meeting tonight, September 6, at the Holiday Inn, Oak Ridge. The social hour begins at 6 p.m., with dinner set at 6:45 p.m.

F. E. Moore, manager of the U. S. Product Sales Division for the Foxboro Company, will speak on "Dispelling Myths About Accuracy." The presentation will clarify confusing terminology such as "accuracy" and "rangeability," terms which are frequently misunderstood.

Moore received degrees of bachelor of science in chemical engineering and bachelor of naval science, both from the University of Notre Dame. He has published several papers in the area of analytical measurements for process instrumentation systems.

## AICHE Sponsoring Seminar Next Week

The Knoxville-Oak Ridge Section of the American Institute of Chemical Engineers will again sponsor an annual seminar in Oak Ridge. The topic this year is bio-engineering. This rapidly growing area of engineering should be of interest to all engineers as well as chemical engineers.

The sessions will be conducted in Room E5 of the ORINS Special Training Building (behind the AEC Administration Building) from 7:30 to 9:30 p.m. on September 11, 12 and 13.

The individual lectures and speakers are "Bioengineering at ORNL," by J. L. Liverman and "Cell Mechanics" by C. J. Wust, Monday, September 11; "Macromolecule Separations" by A. D. Kelmers and "Biological Use of the Ultracentrifuge" by C. E. Nunley, Tuesday, September 12; and "Microbial Bioengineering," by H. R. Bungay, Wednesday, September 13. Professor Bungay is an environmental systems engineer from Clemson University. He received his undergraduate training in chemical engineering at Cornell and graduate training in biochemistry at Syracuse. He has been associated with the Eli Lilly & Company, Virginia Polytechnic Institute, and is now in the Environmental Systems Engineering Department of the College of Engineering at Clemson.

This year it will be necessary to charge a registration fee of \$1.50 to help meeting expenses. Nonmembers of the society are welcome to attend.

Additional information on the AICHE seminar may be obtained from K. O. Johnsson, extension 3-5473; or R. J. Kedl, 3-7953.

## NEW BUMPER STICKER

Bumper sticker: "Don't be a drop-out. Stay in school and learn to read and riot."



**Y-12 HAS PARTICIPATED** in the Training and Technology Project for the past year. The project trains underemployed persons in six different occupations and helps to update the technical training of vocational teachers. This is a shop available to the trainees staffed by Y-12 instructors.

## 157 Complete First Year Training In TAT Project

Completion ceremonies for the Training and Technology Project's first full-year training class were held at 2 p.m. Friday, September 1. The rites took place at the Jefferson Junior High School Auditorium, Oak Ridge. Photographs of the ceremonies will be carried in next week's Bulletin.

Speakers were Eugene L. Joyce, Oak Ridge lawyer and civic leader, and J. M. Case, deputy superintendent of Y-12.

A total of 157 trainees received certificates marking the completion in one of six skill or technical fields — mechanical engineering technology, machining, physical testing, industrial electronics, glass fabrication and

welding. The graduating class, with the exception of welding trainees, received 52 weeks of training in technical and related subjects in Y-12 under the instruction of experienced personnel from the Nuclear Division, Union Carbide Corporation. Welding trainees are completing a 26-week course.

Also participating in the project are Oak Ridge Associated Universities, University of Tennessee, Tennessee Department of Employment Security, Tennessee Department of Education, Division of Vocational-Technical Education, and labor organizations.

The project, supported by funds from the U. S. Department of Labor and the U. S. Office of Education, was established to explore ways to combine the resources of industry, education and government in training critically needed skilled and technical personnel for today's industrial society. The project is seeking to upgrade the skills of persons who are employed below their potential.

Of the 157 graduates, more than 140 have accepted or are considering firm offers of employment in industry.

A second class of trainees in the two-year project will begin training on September 18. More than 1,500 persons have applied for admission to the class. Applications are currently being considered and appointments will be made by Friday, September 8.



**PAUL E. TRENT, CHEMICAL ENGINEERING DEVELOPMENT**, center, is congratulated for his latest patent application, "Production of Uranium Metal Powder." At left, is W. K. Whitson, and at right is George B. Marrow.

## SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
20 Days  
541,000 Man-Hours  
(Unofficial Estimate)  
Through September 4  
Without a Disabling  
Injury  
Safety At Home  
At Work, At Play



# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG ..... Editor

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## Graduate School Is Extended By AEC

The Oak Ridge Resident Graduate Program, a cooperative educational venture of the University of Tennessee, the Atomic Energy Commission, and Oak Ridge Associated Universities, has been extended for five years.

The program, established in 1945, to meet wartime educational needs, now aids professional advancement by providing courses carrying full credit in certain science and engineering curricula leading to the master and doctor of philosophy degrees. More than 3,000 students have taken part in the program since its inception.

Meanwhile, the school announces its Fall schedules of courses. Registration will be held Monday, September 18, from 6 to 9 p.m. in the ORAU Special Training Building on Laboratory Road. Faculty advisers will be present to advise and approve the course selections.

Courses offered this Fall include:

- Chemical Engineering 5620 — Differential Mass Transfer Operations.
- Electrical Engineering 5070 — Transients in Linear Systems.
- Mathematics 4050 — Matrix Algebra and Applications.
- Mathematics 4510 — Introduction to Analysis.
- Mathematics 4540 — Advanced Calculus.
- Mathematics 5510 — Introduction to Higher Algebra.
- Metallurgical Engineering 5410 — Advanced X-ray Diffraction.
- Metallurgical Engineering 5840 — Metallurgy of Deformation and Fracture.
- Physics 3710 — Introduction to Atomic and Nuclear Physics.
- Physics 4210 — Electricity and Magnetism.
- Physics 4510 — Atomic Physics Laboratory.
- Physics 4540 — Nuclear Physics Laboratory.
- Physics 5110 — Introduction to Theoretical Physics.
- Physics 5210 — Advanced Modern Physics.
- Physics 5310 — Advanced Dynamics.
- Physics 5610 — Mathematical Methods in Physics.
- Zoology 3010 — Concepts of General Zoology.
- Zoology 4360 — General Genetics.

Students may save time by preregistering. Forms will be available at the Oak Ridge Graduate Office by September 11. The office is open Monday through Friday.

All the above courses are approved for partial reimbursement through the Carbide Educational Assistance Program.

Obey security regulations.

## Why Is Fire Prevention Week Set Every Year The Second Week In October?

Mrs. O'Leary had a barn and in the barn was a cow and a kerosene lamp and in the loft was some hay. One day a friend, Dennis the drayman, stopped his wagon in the road nearby to look at the sunset. How dry the trees looked. No wonder with no rain for three months.

What was that coming from the roof of Mrs. O'Leary's barn? Could the barn be on fire? That was certainly smoke he saw, and now some shoots of red flame. Dennis cracked his whip and was off to the barn as fast as his wheels could carry him. He rescued a calf whose hair had started to burn, and then went back for the cow. Dennis' wooden leg caught in a crack between two boards and he had all he could do to rescue himself.

The bright flames crackled in the hay, the fiery wooden walls fell out. The hungry fire followed high wooden fence down the alley. Ah, what was that? A pile of rubbish — tinder dry boxes and old boards. Good fuel for the fire! From the fence to the rubbish pile it jumped. Down the alley to another wooden fence, to a neighbor's barn, then to a nearby house, and over the shingle roof tops of one house after another until the whole neighborhood was ablaze.

Frightened men, women, and children ran down the streets. Big and powerful, the fire burned a path down to the river, and on a gust of wind it crossed the river to the South Side. People snatched their precious belongings. Men

drove their goats and pigs, women carried their babies, children snatched their dolls. Pushing and crying, they ran toward the bridge. There weren't enough firemen. There weren't enough fire engines to stop the tremendous fire.

When the sun came up the next day it looked down upon a great bonfire of 2,000 acres still burning. Ninety-eight thousand homeless people, 17,450 buildings destroyed, 250 lives lost, \$200,000,000 damage—who was to blame? Had someone left the kerosene lamp burning in Mrs. O'Leary's barn? Had the cow kicked it over on the straw-covered floor?

But the damage was done. The people said, "Don't let it happen again! To help us remember we have Fire Prevention Week every year in October to commemorate October 9, 1871, the day Chicago burned out."

This year Fire Prevention Week is set for October 8-14.

Let's don't let Chicago burn again!

## Spence Wallace Hears Happy Lipscomb News!

The Spence Wallaces had happy news from down middle Tennessee way recently. They were informed that William S. Wallace, Jr., was selected as one of the two outstanding student preachers in David Lipscomb College's August graduating class.

Young Wallace is scheduled to begin full time ministerial work in Barnesville, Georgia, under the sponsorship of the Fourth Avenue Church of Christ, Franklin, Tennessee, where he has served as an assistant minister while completing his studies at Lipscomb.

The proud father is in Y-12's Casting Department, and the Wallaces live at 117 Quincy Avenue, Oak Ridge.

The young minister is married to the former Judy Cox, and they have a son Samuel Spence, who is the apple of his grandparents' eye, naturally.

## A MATTER OF TASTE

"I do not like work, even when another person does it." Mark Twain.



Ride wanted from West Haven section, Knoxville, to Central Portal, straight day. Don Manley, plant phone 3-5910, home phone Knoxville 523-3875.

Ride wanted from Cline Drive, Maynardville Highway, on Emory Road area, to Central or West Portal, straight day. M. R. Humphrey, plant phone 3-5784, home phone Maynardville 922-2192.



FRANKIE RUCKART, a 1964 graduate of Rule High School, has been in Vietnam since the first of June. He is with the 69th Combat Engineering Battalion of the U.S. Army. Ruckart is the son of F. A. Ruckart, Guard Department.



A 'PAJAMA GAME' WITH A HEART . . . that's the heart-warming story featuring the winsome trio above. Mrs. Gladys Hunt, Lenoir City, has made over 2,000 pairs of pajamas for patients in Children's Hospital, Knoxville. The attractive pair of youngsters above are David Bayer and Sherrie Elaine Huffine. Sherrie is the granddaughter of B. E. Reneau, Alpha Five Machine Shop. (Photo courtesy of the Knoxville News-Sentinel.)

## 'Pajama Lady' Story Catches Reneau's Eye With Granddaughter

B. E. Reneau, Alpha Five Machine Shop, came up recently with this touching story that ran in the Knoxville News-Sentinel.

It seems this Lenoir City lady, Mrs. Gladys Hunt, makes pajamas and takes them to children in Children's Hospital, Knoxville. The kindly lady likes to visit with the kids and cheer them up, too.

The paper said she had made over 2,000 pairs of pajamas and nearly that many or more diaper shirts all free of charge.

Mrs. Hunt, with the help of

other Lenoir Citians, collects the material for the clothing, then sews it herself . . . and takes it to the hospital. She also photographs many of the children.

The dedicated woman recently celebrated her 66th birthday, and has been troubled with arthritis of the spine. "The doctor thinks it might have started from a back injury I got in an auto wreck in 1929, but I don't let it get me down—and I'm not retired from the pajama business," she laughs.

Reneau's interest in the heart-warming story was heightened by the fact that his little granddaughter Sherrie Elaine Huffine was the recipient of a pair of the pajamas, and was photographed with Mrs. Hunt.

"The Children's Hospital is really something," Reneau attests. "And the efforts of this lady are deeply appreciated by everyone, too. It would take a book to list all of her accomplishments."

On her first visit to the hospital back in 1951, Mrs. Hunt took 100 pairs of pajamas to the kids . . . made from prints and solid-colored cottons which could be easy to wash.

"You might say this is a blessing for me, because I've felt good about every pair of pajamas I've made for those children. I don't have any children of my own, you see," she explained.

Little Sherrie, who was in Children's Hospital with bronchitis, is the daughter of Mr. and Mrs. Howard Huffine, Oak Ridge.

## Eye Injuries Can Happen In Many Ways

Eyes can be injured by:

- Flying objects.
- Molten metals.
- Injurious Light.
- Heat Rays.
- Acids and corrosive liquids.

Give your eyes the protection they need. You depend on your eyes a great deal . . . be sure that you take care of them. Guard them always against accident.

## ORNL Will Host CVD Conference

Oak Ridge National Laboratory will host a conference on Chemical Vapor Deposition of Refractory Metals, Alloys and Compounds September 12-14 in Gatlinburg. The conference is co-sponsored by the Materials Science and Technology Division of the American Nuclear Society and Vapo-Metallurgy Committee of Metallurgical Society of the American Institute of Mining, Metallurgical and Petroleum Engineers.

CVD is a specialized branch of vapor disposition dealing with vapor transport and condensation of definite atomic or molecular species resulting from chemical reaction.

The purpose of the conference is to bring together the latest efforts in this diverse and rapidly expanding field, and to provide a proper environment for technical exchange and free discussion among persons actively working in the field.

Approximately 50 participants, of 200 expected conferees from government and industry, have co-authored 28 papers scheduled for presentation. The papers describe progress and developments of CVD in the areas of theory, methods, applications and evaluation.





**AH . . . RETIREMENT, SIGHS** J. A. Myers, who departed from Y-12 the end of July to begin a life of leisure. He is seen on a recent jaunt to Daytona Beach, where he won a \$31 jack-pot for this beautiful red snapper. The monster weighed 18 pounds, 10 and one-half ounces. The amberjack lying in the driveway was caught by fellow Oak Ridger James Miller. Myers, whose looks belie his age, recommends the long days of retirement. "They're the greatest," he allows.

## Two Left Feet?

## Round Dancing Classes Set To Open In Early October, Y-12 Instructor

Do you have two left feet? So did many of those who have recently completed Round Dance classes, but now they enjoy tripping the light fantastic!

Want to have some fun, meet new people, try something new?

Round dancing classes can accomplish all this and at the same time teach you a new concept in couple dancing. Enroll in Round Dance classes starting Monday, September 18, in the Green Room of the Ridge Recreation Hall. Classes will open October 2.

What is Round Dancing? Besides fun and relaxation, that is. "Round" comes from the fact that couples dance in a large circle. Naturally, in such arrangement all couples must be doing the same dancing patterns to prevent collisions, although such 'encounters' do often occur—it's all part of the fun.

The basic patterns and steps are from folk and ballroom dancing with variations plus a few innovations peculiar to round dancing. Standardized 'basics' are used by all round dancers throughout the world, and a dancer in Germany, Canada, or the U.S.A. can readily understand a direction sheet for a particular dance. Specific dance patterns are written for a particular recording, either a "pop" record or a tune by one of the many round dance recording companies.

So—the result of round dance lessons is learning to do a dance sequence with the other members of the class—these can be very easy or more difficult. And it is a wonderful change of pace.

Round dancing has grown rapidly over the last two decades.

Over 500 clubs are listed in the national publication, and an incomplete list of instructors names over 400.

Bob and Janette Kemper (he's in Y-12's Engineering) will be the instructors. They have been dancing for several years, and attend workshops each year in or to learn new dances and styling. At present they are members of the Dixie Round Dance Council, which encompasses teachers and advanced dancers of four states.

For further information on class enrollment, get in touch with Bob Kemper, extension 3-5367, or Oak Ridge telephone 483-3337.

## Small Boat-Handling Course To Be Offered

The Oak Ridge Power Squadron is again this Fall sponsoring classes in small boat-handling.

The classes begin Wednesday, September 20, in Room A-216 at the Oak Ridge High School. The course is free, open to the public, and are held in Room A-216.

Additional information may be obtained from R. S. Edwards, extension 3-5458, Oak Ridge telephone 483-9725; or R. J. Wertz, 3-9374 or 483-6756.

## MANHATTAN DISTRICT

The original area, chosen for the site of Oak Ridge, contained 92 square miles, lying in Anderson and Roane Counties. The site was chosen by the U. S. Army's Manhattan Engineer District for its remoteness, the availability of water, power and transportation, and the labor surplus in the region.

## Y-12 Braves Are Champions Again!

Y-12's Braves were not content with taking the League crown in Softball, they turned then and took the tournament laurels as well.

The Braves over-came the Eagles 8 to 3 in the final game of the tournament last week . . . with the hits evenly divided, 11 each. John Evans and Jim Shoemaker were big heroes with homers each.

The Eagles had won a berth in finals by killing off the K-25 Sports earlier, 10 to 0. Hugh Richards romped through with two homers; Wayne Speller poled one. Then the Eagles took on the K-25 Mets, trimming them in short order 7 to 3. Richards again accounted for a homer in the semi-finals.

Tournament action thus came to an end.

Only one game was left to decide the second-placed team in league competition . . . as the K-25 Mets came in second in the first half; the K-25 Sports second in the last half.

The Mets took it 10 to 3 to become League runners-up . . . a nice friendly ending for the season.

## Recreation



### Monday, September 11

**BOWLING:** 5:45 p.m. C League, Ark Lanes.

**GOLF:** Melton Hill Course, immediately after work.

**TENNIS:** League play as per schedule, to be arranged by players.

### Tuesday, September 12

**GOLF:** Melton Hill Course, immediately after work.

**CARBIDE CAMERA CLUB:** 8 p.m. First Presbyterian Church.

### Wednesday, September 13

**CARBIDE RIFLE LEAGUE:** 7 p.m. Clinton Rifle Range.

**BOWLING:** Mixed League, 8 p.m., Ark Lanes.

**GOLF:** 4:30 p.m. Deadline for Kingston Tournament.

### Thursday, September 14

**BOWLING:** Classic League, 5:45 p.m., Ark Lanes.

**HORSESHOE LEAGUE:** 7 p.m. City Courts, Jackson Square.

### Saturday, September 16

**GOLF TOURNAMENT:** 7 a.m. Southwest Point Course, Kingston.

## Basic Junior Rifle Class Set September 11

A basic rifle training course for juniors will be given by the Oak Ridge Sportsmen's Association this Fall. Boys and girls 12 through 18 years of age are eligible and no previous knowledge of firearms is necessary. All instruction will be given by NRA certified instructors.

The course will run two hours per session, one session per week for six weeks. Registration will be held 6:30 to 8:30 p.m., Monday, September 11, at the new ORSA indoor range. A parent of each applicant must be on hand at that time to sign the application form.

This course is not for juniors who have fired with the Club before. The regular ORSA Junior Rifle Club will begin its Fall shooting season at the completion of the basic training course.

For further information call Jack Huff, extension 3-5403, or George Reimann, at 3-1701.



**A WESTERN-ARABIAN HORSE SHOW** this past week-end, another highlight of the Oak Ridge 25 Celebration, brought out these equestrians. From left, are Bill Ebert, George Evans, Janet Levy and Sandra Lee. The show was sponsored by the East Tennessee Ridge Club, whose president is Ira J. Shotts, Y-12's Timekeeping.

## Melton Golfers Get New Leaders

The Batch - Winstead, Brown - Gresham teams lead the Melton Hill Golf League, after last week's competition. Brown and Gresham moved up with a six-point win over Bryant (firing alone for the Bryant-Henderson duo.) Other six-pointers went to Huffman over Clabough-Nobles, Bill Grubb over Morehead-Poly, and Boyd-E. Sise over McGinnis-Burris.

Taking five it was Garber Huddleston over Hamby-Braden . . . and winning four were Nelson-Tiller over Arnold-Roberts, over Alvey - Gamble and Dill-Hopwood over Wright-H. Butler. Sharing three each it was Perry-T. Butler and Batch-Winstead.

Low scratch cards were turned in by Brown and Grubb, each with 39; Hamby and Braden with 40; and Huffman with 41.

Roy Huddleston fired a 35 handicap score . . . Arnold, H. Butler, Alvey and Boyd all tallied a 36.

Team	W	L
Batch-Winstead	23	7
Brown-Gresham	23	7
Nelson-Tiller	22	8
Thompson-Rogers	21	9
Huffman-Hogg	19	11
Cofer-Grubb	19	11
Garber-Huddleston	18	12
Wright-H. Butler	17	13
McGinnis-Burris	16	14
Boyd-E. Sise	16	14
Hamby-Braden	15	15
Arnold-Roberts	15	15
Perry-T. Butler	10	20
Bryant-Henderson	8	22
Clabough-Nobles	8	22
Morehead-Poly	7	23
Alvey-Gamble	7	23
Dill-Hopwood	6	24

## Coley-Raper Back In HossShoe Lead

Y-12's big team in the Horse-shoe League climbed back into familiar surroundings last week, as Coley-Raper regained a leg in the race. They downed Hutto-Tillery for the full count of nine. Durham-Harness took Rein-Case to the same tune. Matheny-Miller won a forfeit from Kendig-Zupan and six points at the expense of Gray-Leonard.

Taking eight it was Luckett-Barger over Gray-Leonard.

League standings follow:

Team	W	L
Coley-Raper, Y-12	25	2
Durham-Harness, ORNL	17	1
Luckett-Barger, ORNL	19	8
Helms-Lucke, Y-12	12	6
Matheny-Miller, ORNL	15	12
Rein-Case, ORNL	9	9
Leonard-Gray, ORNL	7	11
Hutto-Tillery, ORNL	1	26
Kendig-Y-12-Zupan-ORNL	0	27

## Another Registration Asked For Golf Race

Several golfers have remarked 'why register again for the Southwest Point tournament?'

The answer is very simple . . . the 'best laid plans of mice and men.'

Due to vacations, changes in plans, etc., it is necessary to register again. A blank appears in this issue of the Bulletin for the September 16 tournament. Get your name in the pot now for the final tee contest of the season.

## Tee-Off Time Application For Southwest Point (Kingston) Tourney

Saturday, September 16

Foursome

\_\_\_\_\_, Leader

\_\_\_\_\_,

\_\_\_\_\_,

\_\_\_\_\_,

Leader's office phone \_\_\_\_\_

Home phone \_\_\_\_\_

Tee-off Time Preferred \_\_\_\_\_

Fill out completely and return to the Recreation Office, Building 9704-2. Deadline for entering is 4:30 p.m. Wednesday, September 13. Tee-off times will be drawn the next day, Thursday, September 14 at 8:30 a.m.





**UNION CARBIDE CORPORATION**  
NUCLEAR DIVISION  
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

(RETURN REQUESTED)

BULK RATE  
U.S. Postage  
**PAID**  
Oak Ridge, Tenn.  
Permit No. 71



September begins her siren song . . . with cooler nights, a hint of winter as the edge of summer nears. Congratulations to the following Y-12ers who cross important thresholds with Union Carbide Corporation.

#### 20 YEARS

**Isaac H. Tackett Jr.**, Janitors Department, September 7.

#### 15 YEARS

**Hugh F. Henderson**, Mechanical Inspection, September 6.

**Vernon C. Hemperly**, Physical Testing, September 8.

**Fred W. Walker**, Production Scheduling, September 11.

#### 10 YEARS

**Clarence F. Cawood**, Buildings, Grounds and Maintenance Shops, September 7.

### 'Solar Eclipse' Subject Of New AEC Movie

A brief jet plane ride with Los Alamos Scientific Laboratory researchers, seeking knowledge about the sources and effects of nuclear energy, is the subject of a motion picture, now available from the Atomic Energy Commission here.

The new 16 mm, color film is entitled "Solar Eclipse Expedition 1966" and has a showing time of 32 minutes. This semi-technical film is suitable for a wide range of audiences and is available for telecasting.

After a short animated explanation of solar physics, describing what scientists look for when they study the sun's corona, the film follows Los Alamos scientists, who travel to Buenos Aires, Argentina in a research jet and "chase" the moon's shadow over the South Atlantic Ocean during the actual eclipse.

The film may be borrowed free of charge from the Motion Picture Film Loan Library at the AEC.

Always apply the "need-to-know" principle of security.

6-13532



**THE OAK RIDGE SQUADRON** of the Civil Air Patrol disembarks from a Flying Boxcar after a visit to Chanute Air Force Base, Illinois. The cadets lived as airmen while at Chanute, and visited a missile site while there. CAP is open to young people 13 to 18 and senior members, 18 and above.

## O. R. Squadron-Civil Air Patrol Takes Tour At Chanute Air Force Base

A total of seven members of the Oak Ridge Squadron of the Civil Air Patrol attended the CAP's summer encampment at Chanute Air Force Base, Illinois. Members flew to Chanute in an Air Force C-119, Flying Boxcar. This is one of many activities available to members of the CAP. There are many other activities such as International Air Cadet Exchange, Jet Orientation Course, Federal Aviation Agency Course, and Powered Flight.

At Chanute the cadets and senior members lived as airmen do. They performed all military duties, and saw the awesome sight of a B-52 bomber. While at Chanute, they visited a missile site and operated the flight simulator.

Children of Y-12ers attending were Cadet 1/Lt. Roy P. Russell, Jr., Cadet John Apple, William King and David Laverne. Others attending were Stephen C. Lord, and Robert Feldmen. The Training officer was First Lieutenant Melvin E. LaVerne.

The CAP is open to young people from the ages of 13 to 18 and senior members, 18 and above.

Additional information may be obtained from Roy P. Russell, Oak Ridge telephone 483-4500, or

### YOUNG AGAIN

Seen recently an advertisement for a cream that makes you look young again. It breaks you out in acne!

America's security is your security.



**BEN A. EASTER**, center, receives a beautiful plaque for his 15 years of loyal service to Union Carbide Corporation. **M. F. Schwenn**, superintendent of the Fabrication Division, left, makes the presentation, as **W. F. Cartwright**, looks on from the right. Easter retired last week to his Rockwood home.



**THIRD DIMENSION TELEVISION?** Using light rays from a laser, a scientist records a hologram, a true three-dimensional image. When the hologram is viewed the figurines appear in three-dimensional form from any angle, as if looking through a window. Scientists believe that holography, a new field of lensless photography, may be the forerunner of three-dimensional television and X-rays. Holography is demonstrated in "The Laser—A Light Fantastic," which opens a new Fall season of broadcasting for the "21st Century," Sunday, September 10, at 6 p.m. over WBIR-TV, Channel 10. The program is again sponsored by Union Carbide Corporation.

## 'The Laser—A Light Fantastic' Featured On '21st Century' Telecast Sunday

The laser, perhaps one of the most promising, and yet one of the least understood achievements of 20th century technology, will be investigated in terms of capabilities and future potentials on "The 21st Century" broadcast Sunday.

"The Laser — A Light Fantastic," will be aired Sunday, September 10 at 6 p.m. in color on the CBS-TV network, carried locally over WBIR-TV, Channel 10. It is the first broadcast of the new Fall season for "The 21st Century." The series is produced by CBS News with Walter Cronkite as principal reporter. Union Carbide Corporation continues to sponsor "The 21st Century" in the public interest.

The laser, technically "light amplification by stimulated emission of radiation," can be focused down to a microscopic beam that could contain the energy of billions of suns. Despite this immense power, scientists consider death rays and other science-fiction type applications unlikely.

As a manufacturing tool the laser is seen drilling precision holes in a diamond, the hardest substance in nature. A communications laser demonstrates its potential for transmission of sound with unusual clarity—one laser beam could theoretically transmit all of the information now sent by air, wire, and satellite. In bloodless surgery, a torn retina is "welded" back with a laser—the treatment is absolutely painless and instantaneous.

Other areas of advanced technology to be covered in future broadcasts of television's first continuing report on the world of tomorrow include the computer revolution, atomic and electronic medicine, leisure, and the application of biological engineering principles to man's technology, known as bionics.

This is Union Carbide's second season of sponsorship for the widely heralded "21st Century."